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### AVERAGE AND PROBABILITY.

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185. Proposed by R. D. CARMICHAEL, Anniston, Ala.

If a line  $l$  is divided into  $n$  parts by  $n-1$  points taken at random on it, what is the mean value of the  $p$ th power of one of the parts taken at random?

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### MISCELLANEOUS.

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168. Proposed by W. J. GREENSTREET, M. A., Editor of The Mathematical Gazette, Stroud, England.

Sum to  $n$  terms,  $\sin\alpha \sin\beta + \sin\alpha - \beta \sin\beta + \gamma + \sin\alpha - 2\beta \sin\beta + 2\gamma + \dots$

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### NOTES AND NEWS.

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Mr. George Gailey Chambers has been appointed an instructor in mathematics at the University of Pennsylvania.

J. N. Ambler, Professor of Mathematics in Roanoke College, Salem, Va., has resigned to accept a position as city engineer of Winston, N. C.

Mr. Chester E. Dimick has resigned an instructorship at the University of Pennsylvania to become an instructor in mathematics on the U. S. S. Chase, of the revenue service.

We regret to announce to our readers that, owing to increased duties at The University of Chicago and to his desire to devote all his leisure moments to investigations in a most attractive field of research in which he is now interested, Editor Dickson has decided to withdraw from the active editorship of the MONTHLY. However, he has agreed to remain with us in a semi-official way, rendering us such assistance from time to time as his leisure will permit. The work Dr. Dickson has been doing so efficiently for the past four years will now be done by Dr. H. E. Slaught, Assistant Professor of Mathematics in the University of Chicago, and Secretary of the Chicago Section of the American Mathematical Society. While we are very sorry to lose the active service of Dr. Dickson, we are glad to have his work taken up by so capable a man as Dr. Slaught. All articles for publication in the MONTHLY should in the future be sent to him instead of to Dr. Dickson.

We take this opportunity in behalf of the readers of the MONTHLY to extend to Dr. Dickson our sincere thanks for the valuable service he has rendered, through the MONTHLY, to the science of mathematics. F.